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Brown, Sherri M.
Liu, Jingdong

<120> Nucleic Acid Molecules and Other Molecules Associated
with the Gibberellin Pathway

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aagtgaaatc aaggagtgcc tagaatacgt acacaggtag ttgggtgacc aaaggcttgc 180
cggcacgaag gaccgtccgg tctcaaaatg tcgatgacac ggccaatggg g 231

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ctggactgag gacgggatct gctgggagag gaactccgac gtgaaggagg tggacgacac 180
ggccatggct ttccgcctgc tacggctgca cggatacagc gtctcgccag atgtgttcaa 240
gaacttcgag aaggacgggg agttcttcgc cttcgtgggg cagtcgaacc aggcggtgac 300
ggggatgtac a 311

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cagcatcttt gagccagaca gagcgacaga gcgtctggga tgggct 286

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atgaactcat tggatgttgc aaaaggcaaa taaagaagaa aacaaatata acaaatgcag 120
tggtatagaa ccacaatata tggttcatga taggcaaaca tacttacttt tagttcaggt 180
tattgagatt tgtgctggac gaattggtga ggctgtgtca atgataaaca acaaggataa 240
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gtcccaggat actatgaaga attaagccag aattaaattg gatttaaaaa ggacatccaa 360
ttgaatatgc aagagcttgc tcaatctctc cttttgagat gtgatgagaa aactagcaat 420
aagaagacca agaaaacott atgggatgtc ctaagaagtt tatactatgc 470

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<222> (206), (221)
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cttcggctac cgcttacgcg ctgatgcaaa ccggtgacaa gaagtgttc gaatacatcg 180
acaggattgt caaaaaattc aacgnggag tcccaatgt ntatccggtc gatcttttcg 240
agcacatctg ggttgtggat cggttggagc gactcgggat ctcccgtac ttccaacgag 300
agattgagca gtgcatggac tatgtgaaca ggcactggac tgaagatggg atttgctggg 360
ctag 364

<210> 9
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<400> 9

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 caggatgtct ctcgtcaaca acgagctcct cctccggaca gctcaagccg acttcagaag 120
 tttccagaga caatgcaagc tcgagtggca tggcctcaga aaatggggcca gcaggagaaa 180
 cctccaagca tacggcgtga cgtctaacag cacgctgcga tcctacttct tagccgcagc 240
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 cg 302

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 <212> DNA
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<400> 10

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 agattacacg gttaccaagt ttcagccgat gtgttcaaga actttgagag aaatggtgaa 180
 tttttctgct ttacggggca gaccacacaa gcagtgcag gaatgtttaa tctgtatagg 240
 gccacacaaa tcatgttccc gggagagaga attcttgagc acgggaagca cttctctgcc 300
 aaatttttga aggagaagag agcagcaaat gagcttgtaa ataaat 346

<210> 11
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<400> 11

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 gcgccgtcta cgacacgtgc aagcatctgg tgggcaaggc cgcggcgggtg cagaaccgcg 180
 gggatcatga ccacatcgcc gacctttggg tggacgtcgt gagggccatg atgcccagag 240
 cggagtggag gatgagcggc cgggtgccgt ccatggagga gtacctgccg atcggggagg 300

tgctggttcgc gatcggcccc atcgtcccca tggccgccta cctgggttt

348

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<213> Zea mays

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gccgccatgg cttaccagag gaagaacggg tccttcttca actcgccggc cacaacgggc 120
gcagctgcca tccacaacgg ctacaacaag agagccatcg gttacttgga tgctctcatc 180
agcgagtctg gcagcagctc gtcagtaccg gctgtgtatc cacggaaggt gcacagccag 240
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<213> Zea mays

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tggaccagct acaatttgtg cggcaaaggc tggcatattg ctatctcgct gctgctacca 180
ccatatcccc tcacgaattg totgatgctc gccttgcattg tgccaaaagc 230

<210> 14
<211> 286
<212> DNA
<213> Zea mays

<400> 14

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agaactggga tgagcaccac aaagttgagt tctgttcgga gaaagtagaa atagttttct 120
atgctgtcta taatacagtg aaccagcttg gatctatggc ttctgcagta cagaagcgcg 180
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cagactggca aaggaggcaa tttgtaccaa cagttgagga atacat 286

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 ccaaacatgc ataaggaaga acttgagact ataataagga atcagctccg gaagccccag 180
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 cagactcccc gcttcccaca gtgtgttgag tggat 275

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 <212> DNA
 <213> Zea mays

<400> 16

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 ttggagagga ctgcatttca tcgggaggaa tttctctgtt gctatggacc agcagttcac 180
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 agactcgatc attgttcagc actccttcca caactgctgt tgcattaatc cacaaatata 240
 acgaccaagc ccttcaatac ctaatttgct tg 272

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 <213> Zea mays

<400> 18
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 accatgcatt gagttctatt cggaacaggt gaaaatagta tttctgcta tttatacaac 240
 agtgaacat ctggagcatg gcttctgcag c 271

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<400> 19
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 tgggtgcctc acaactgtgg ttgatgactt cttcgatgtt ggtggatcaa aagaagaatt 180
 agaaaacctg atagcactag ttgagaaatg gcatgcgcac catgcagttg agttctattc 240
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 ggcttctgca gcac 314

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 <211> 339
 <212> DNA
 <213> Zea mays

<400> 20
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 ccgtattttc ttctgaattg tctgacgctc gcatttcatg ggccaaaaat ggtgtcctca 180
 caactgtggt tgatgacttc ttcgatgttg gtggatcaaa agaagaatta gaaaacctga 240
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 aaatagtatt ttctgctatt tatacaacag tgaaccatc 339

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 <211> 281
 <212> DNA

<213> Zea mays

<400> 21

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 tctatgtcca tagaagccgc taaaaaggca atgcagaagt ccatagacgt gtctaggaga 180
 gacttgctaa gattggttct caggaaagaa agtgctgttc ctaggccatg caaggagctc 240
 ttctggaaga tgtgtaagat acttcaactgt tttactctca g 281

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 cagagacttc aattcctctc aacttactta ccagcaagaa cttcaacatc ttgaaagttg 180
 ggtgaaagaa tgcaggttgg accaactacc atttgtgcga caaaatttgg catacttctt 240
 attgtccgct gctggctgca tgtactcccc tgaactgtct gaagctcgca ctttgtgtgc 300
 aaaaaatggg gcgctcataa ctattgttga tgacttcttt gatgttggag gatcaaaaga 360
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 ttactc 426

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<211> 441

<212> DNA

<213> Zea mays

<400> 23

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ctggaatgat gttatgaagt tocaagcgaa gaatggatcc ttgtttaact ctctttctgc 240
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tgtcacacaa tttggcagtg cagtaccaac agtggtccca caaaatattc actatcagct 360
ttcaatggtg gacacgctcg aaagtgttgg aatatcacgg catttttctg tggagaaaaa 420
ggctgtcctg gacatgatat a 441

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<212> DNA
<213> Zea mays

<400> 24

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tacctgatac cgaagggctg gaacgttcag ctgtggtaca gaagtgtgca catggatcct 120
gaagtttata gtactccaaa gagtttaacc catcaagatg ggaggggttat acaccgagag 180
ccggcacatt ccttcctttt ggacttggtta ccagattctg ccctgggaac gatcttgcaa 240
agctggagat ctccgtct 258

<210> 25
<211> 263
<212> DNA
<213> Zea mays

<400> 25

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gcacatgagt cctgaagttt atcgtgactc caaagagttt aacccatcaa gatgggaggg 120
ttatacaccg agagccggca cattccttcc ttctggactt ggtaccagat tctgccctgg 180
gaacgatctt gcaaagctgg agatctccgt cttcctccac catttctcc ttggttacia 240
gctcacgagg acaaatccta act 263

<210> 26
<211> 358
<212> DNA
<213> Zea mays

<400> 26

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accttccggg aggccgtgga ggacgtggag taccaagggt acctgatccc caagggtctg 120

aaggtgatgc cctgttccg gaacatccac cacagccccg accacttccc ctgcccggag 180
aagttcgacc cctcccgata cgagactgct cccaagccca acacgttcct gccgttcggc 240
aacgggaccc actcgtgccc gggcaacgag ctcgccaagc tggagatgct cgtgctcttc 300
caccacctcg ccaccaagta caggtgggtcc actccaagtc cgagagcggc gtgcagtt 358

<210> 27
<211> 432
<212> DNA
<213> Zea mays

<400> 27

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ttccaggatc cacacaagtt cgacccttct agattccagg tggcgccgag tccgagcacg 180
ttcctgccgt ttgggcacgg cgtgcacgag tgccccggga acgagctggc caagctcgag 240
atgctcgtcc tcatccacca cctgggtcacc ggctacaggt gcgtccatct cctctcagat 300
cctctccata tattccccgc ttgtcctata gcttgtggac caggatgaca catggctggc 360
tgctgccgct ctccatgggg ctccggtctc ctctctccgt gaatgctcca aatctcctcc 420
tgtctgtatg ta 432

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<211> 286
<212> DNA
<213> Glycine max

<400> 28

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ttctcagtgc tttcaagtcc aaggaccctg attccttcat ctctccttt gtctccagat 120
ttggaagaac tggaatgtac aagaccatga tgtttgaaa tccaagtata attgtgacaa 180
cacctgaaat atgcaaaagg gtgcttacag atgacgataa attcacacct ggttggcctc 240
aatctactat agagctcatt ggaaagaggt catttatttc aatgtc 286

<210> 29
<211> 228
<212> DNA
<213> Glycine max

<400> 29

tgtgatgata atgatgatga tgatgtgttc catgtggatg tgggttgtcc ttgtggccat 60
tgctgggtgcc ctttttagtcc taagatctat cctcaagaat gtaaattggt ggctctatga 120
atccaaattg ggtgtgaagc agtactcttt gccaccaggt gacatgggat ggcccttcat 180
tggcaacatg tggtcctttc tcagtgcctt caagtccaag gaccctga 228

<210> 30

<211> 265

<212> DNA

<213> Glycine max

<400> 30

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gatgatgtgt tccatgtgga tgtgggttgt ccttgtggcc attgctggtg cccttttagt 120
cctaagatct atcctcaaga atgtaaattg gtggctctat gaatccaaat tgggtgtgaa 180
gcagtactct ttgccaccag gtgacatggg atggcccttc attggcaaca tgtggtcctt 240
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<210> 31

<211> 266

<212> DNA

<213> Glycine max

<400> 31

gtgatgataa tgatgatgat gatgtgttcc atgtggatgt gggttgtcct tgtggccatt 60
gctgggtgcc ttttagtcct aagatctatc ctcaagaatg taaattggtg gctctatgaa 120
tccaaattgg gtgtgaagca gtactctttg ccaccaggtg acatgggatg gcccttcatt 180
ggcaacatgt ggtcctttct cagtgccttc aagtccaagg accctattcc ttcactctct 240
cctttgtctc cagatttgga agaact 266

<210> 32

<211> 243

<212> DNA

<213> Glycine max

<400> 32

gttagagcca tgtgtattaa tattccccgga tttgcatacc acaaagcatt caaggcaagg 60
aaaaatctag tggccatatt tcaatctatt gtggatgaga gaagaaactt aaggaaggga 120

<223> unsure at all n locations

<400> 35

tacggatgcg agaagacgac agaagggggt gtgagttgag tctgtgatga taatgatgat 60
gatgatgtgt tccatgtgga tgtgggttgt ccttgtggcc attgctggtg cccttttagt 120
cctaagatct atcctcaaga atgtaaattg gtggctctat gaatccaaat tgggtgtgaa 180
gcagtactct ttgccaccag gtgacatggg atggcccttc attggcaaca tgtggtcctt 240
tctcagtgtt ttcaagtcca aggaccctga ttcccttcac tctcctttg tctccagatt 300
tggaagaact ggaatgtaca agaccatgat gtttggaat ccaagtataa ttgtgacaac 360
acctgaaata tgcanaaggg tgcttacaga tgac 394

<210> 36

<211> 389

<212> DNA

<213> Glycine max

<400> 36

gtagagcca tgtgtattaa tattcccgga tttgcatacc acaaagcatt caaggcaagg 60
aaaaatctag tggccatatt tcaatctatt gtggacgaga gaagaaactt aaggaagggc 120
tatctgcctg gaaaagccaa agatatgatg gatgctctga tagatcttga agatgatgaa 180
agaaagttga gtgacgagga catcattgac atcatgttga tgtacttgaa tgcggggccac 240
gagtcttcag gacatattac catgtgggca accttcttcc tgcaaaagca cccagaatat 300
ctccaaaagg ctaaggcaga acaagaagaa ataataagga gaaggccttc aacacagaaa 360
gggttgacac ttaaggaagt tcgggagat 389

<210> 37

<211> 349

<212> DNA

<213> Zea mays

<400> 37

ccaagaccgt ggcggtggcg ctggcgggga gcctgctggg ccacgacgag gcggcggcgt 60
tcccggcggg gtgcggcgag accacctgct acctgcggct gaatcggtac ccggcgtgcc 120
cgttcgcggc gaacaccttc gggctggtgc cccacacgga cagcgacttc ctgacggtgc 180
tgtcccagga ccaggtcggg ggcctgcagc tcatgacgga cgccggctgg gtggcgtca 240
agccccgccc cgacgcgctc atcgtcaaca tcggcgatct gtttcaggcc tggagcaaca 300

acctgtacaa gagcgtggag cacaaggtgg tggccaacgc cacggcgga

349

<210> 38
<211> 283
<212> DNA
<213> Zea mays

<400> 38

gcagctgcag agcagtgccg ggcggtccatc gtgcgcgccg cctccgagtg gggcttcttc 60
caggtgacca accaagccgt gccgcaggtt ctgctggacg agctgcacca ggcgcaggcc 120
ggcggtcttcc gccggccctt ccaactcaag ggcgaccagc cgctgctgga cttctcgccg 180
gagagctacc gctggggcac gccaccgcc acgtgcctgg agcagctctc gtggtccgag 240
gcctaccaca tccccacaac gacgaccacg accggtaacg acg 283

<210> 39
<211> 377
<212> DNA
<213> Zea mays

<400> 39

ccaggatcta ccgggcttca gagaggcgct ggaggagtac gcgaaagcga tggaagagct 60
ggcgggtcaag ctgctggagc tgatcgcccg gagcctgaag ctgaggcccg accggctgca 120
cggcttcttc aaggaccaga cgaccttcat ccggctgaac cactaccctc cttgcccag 180
ccccgacctg gccctcggcg tggggcgga caaggacgcc ggcgccctga ccatcctgta 240
ccaggacgac gtcggggggc tcgacgtccg gcgggcgctcc gacggcgagt ggggtccgct 300
caggcccggtg cccgactcgt tcatcatcaa cgtcggcgac ctcacccagg tgtggagcaa 360
cgacaggtac gagagcg 377

<210> 40
<211> 423
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (321),(400)
<223> unsure at all n locations

<400> 40

cccacgcgtc cggctgcgct gctgcctaca gctagagatg catcgatctc agttgcccg 60

ctcctgtccg ccatggtggc ggcggcctcc cgcgatccac gacacgaagg cgtccatggt 120
gcccggtcc gaccggtagt gtttctgctg gaactcgagg aactcgcgcc acgtgaagtc 180
cggaacgcg cgcgggcggc ccgcctgctt gttctcctgg aggagcgcg cggcgggggc 240
gacgacgcg tccagcggcg ggttgaggaa gaaggcgagc gaccggcggg cgccgtcgcc 300
gctcaccacg gcgcggtgca ngcagctggt gtgacggccg tcggtgagcg cggcgaaggt 360
gtcgccgatg ttgaccacga acgcggtccc gcggggccgn accgggcgcc acggtccgcc 420
gcc 423

<210> 41
<211> 284
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (19)...(20), (22)...(23), (30)...(31), (33), (40), (47), (56),
(59), (61), (67), (70), (84), (105), (156), (159), (238), (283)
<223> unsure at all n locations

<400> 41

tagtaacaca agagtatann cnngagatgn ngnagctgtn ctaaaanatt tcaganctna 60
nagcttngan cttaggcctt gaancaaaga ggtttgaaga atttntcat cacagaccaa 120
actagcttta ttcgactcaa ccactatcct ccatgncnc atcctgacct tgggtcttga 180
cgtcggtcga cacaaggacc ctggtgcctt aaccattctt gcacaggatg aggttgngg 240
acttgaagtg agacgtaaag cagatcaaga gtggataaga gtnc 284

<210> 42
<211> 336
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (113)
<223> unsure at all n locations

<400> 42

ctttcatcct ctctctcgaa cttatattatc tctctctggt tctctgtttt gctctgcttc 60
tcaaaacata accttttatt attatagtat ttactatta taaactaatt ttnattgct 120
aatgcaatgg ccatagagtg cataacaaat atacaatcaa tgtctcaacc acaaaagcac 180

caccaagagc acaaagaaga tgaagcacca ttggtttttg atgcctcact tctcaggcac 240
 caactcaacc taccaaaaaca gttcatttgg cctgatgagg aaaagccatg catgaatgtg 300
 cctgagcttg gtgtccctct cattgacttg gggggg 336

<210> 43
 <211> 277
 <212> DNA
 <213> Glycine max

<400> 43

gtcgagggcc tccaagtctt tgttgatgga agatgggtact ctgtcgctcc taaagaagat 60
 gctttcgttg tcaatattgg cgacacattt atggctctat cgaatgggat gttcaagagt 120
 tgcttgcata gagcagttgt aaacacaaaa ttgtgagaaa atcacttgct ttcttcctat 180
 gtccaaatag agacaaagtg gtcacccctc caaaagatct aatcagctac gaaaattcaa 240
 gaacataccc agatttcaca tggccaagcc ttcttga 277

<210> 44
 <211> 242
 <212> DNA
 <213> Glycine max

<400> 44

acttgaagtg ctttctctca gcagatccac aagctttgtc aacagtttgt gctgaattga 60
 gtgaggcatg caagaagcat ggcttcttcc ttgttgtaa ccatggagtt gatagcaagc 120
 tcatagctca agctcataag ctcatagatg atttcttctg catgcaactc tcacagaagc 180
 agaaggctca gagaaagatt ggagaacatt gtggctatgc taatagcttc attggaagat 240
 tc 242

<210> 45
 <211> 257
 <212> DNA
 <213> Glycine max

<400> 45

ggatggacca acaccaaagt ctgagatcaa gccttgaatc ttttgcaaca agaatgttcc 60
 cccttgctga aagcgtggca gaagtactag cctacaaatt gaatacgaaa tccaactatt 120
 tccgtgaaaa ttgcttgcca aagagttcgt acattcgact gaatagatat cctccatgcc 180

ctatatcgtc aaaggtgcat ggccgtgtgc ctcacagtga tacaagtttt cttaccatcg 240
tacatcagga ccaggtt 257

<210> 46
<211> 243
<212> DNA
<213> Glycine max
<400> 46

gtaatttggg agggtttacc aggactattg tgatgccatg agcaatcttt ctttggggat 60
aatggaactt ttgggaatga gtcttgagggt tggtaaagca tgttttagag agtctttgaa 120
gagaataact caataatgag gctcaattac taccctcctt gtcaaaagcc tgacctcact 180
ttgggcactg gacctcactg tgaccaaca tctttgacca ttcttcacca agaccaagtg 240
gga 243

<210> 47
<211> 229
<212> DNA
<213> Glycine max
<400> 47

tgtggagcac aaggttgtgg caaataacaa aatggaaaga tactccatag catatttcct 60
atgtccttct tacagtactg tcataaacgg ctgcaaagga ccttctgttt ataggaagtt 120
cacgtttgga gaatacagac accaaattca agaagatgtc aagaaaatag gacacaaaat 180
tggaactatcg aagtttctac tttaagatac atgcgcacat tgggataaa 229

<210> 48
<211> 263
<212> DNA
<213> Glycine max
<400> 48

atagagttaa taacaaatat acaatcgatg tctcaaccac aaaagcacca ccaatagcac 60
attgaagatg aagcaccatt ggtttttgat gcctcacttc tcaggcacca actcaaccta 120
ccaaaacagt tcatttggcc tgatgaggaa aagccatgca tgaatgtgcc tgagcttggt 180
gtccctctca ttgacttggg ggggttcttc tctggtgacc ctggtgcaac aatggaggct 240
gcaaggatag ttggtgaggc atg 263

<210> 49
 <211> 255
 <212> DNA
 <213> Glycine max

<400> 49

tacggctgcg agaagacgac agaggggacc ttcattggtat gttactatgt taattattct 60
 tgacttttcat tcatttgttt ttcttaccaa accaaaccaa acagtgagct tgaatttgga 120
 ttcataatga tgattccagt gttgatgtaa aacatgtttt atttttttcg tattgattag 180
 gctcttttcga atgggagata caagagttgc ttgcataggg cagtggtgaa tagccagaca 240
 acaagaaaat ctctt 255

<210> 50
 <211> 235
 <212> DNA
 <213> Glycine max

<400> 50

gctggttgag attatagctc tgagcttagg ccttgaggca aagaggtttg aagagttttt 60
 catcaaagat caaactagct ttattcgact caaccactat cctccatgcc cttcccctca 120
 tctagctctt ggtggttggtc gacacaagga cattggagcc ttaaccattc ttgcacaaga 180
 tgatggttga ggacttgaag tcaaacgcaa agcagatcaa gaggggataa gagg 235

<210> 51
 <211> 246
 <212> DNA
 <213> Glycine max

<400> 51

gctggttgag attatagctc tgagcttagg ccttgaggca aagaggtttg aagagttttt 60
 catcaaagat caaactagct ttattcgact caaccactat cctccatgcc cttcccctca 120
 tctagctctt ggtggttggtc gacacaagga cattggagcc ttaaccattc ttgcacaaga 180
 tgatggttga ggacttgaag tcaaacgcaa agcagatcaa gatggataag agtgaaacct 240
 acacca 246

<210> 52
 <211> 272
 <212> DNA
 <213> Glycine max

<400> 52
 gtgtgtttcca agaataactgt gaagccatga gcaaactctc tcttgggata atggagcttc 60
 tggggatgag cctaggagtt ggcaggggaat gtttcagaga tttcttcgaa ggaaatgagt 120
 cggttatgag gttgaattac taccacccat gccaaaaacc tgagttagct ttaggaactg 180
 gacctcattg tgaccctaca tccctaacca ttctccacca agatcaagtc gaggcctcca 240
 agtctttgtt gatggaagat ggtactctgt cg 272

<210> 53
 <211> 256
 <212> DNA
 <213> Glycine max

<400> 53
 ctgtgtttcca agaataactgt gaagccatga gcaaactctc tcttgggata atggagcttc 60
 tggggatgag cctaggagtt ggcaggggaat gtttcagaga tttcttcgaa ggcaatgagt 120
 cggttatgag gttgaattac taccacccat gccaaaaacc tgagttagct ttaggaactg 180
 gacctcattg tgaccctaca tccctaaaca ttctacacca agatcaagtc agggcctcca 240
 aatctttgtt gatgga 256

<210> 54
 <211> 142
 <212> DNA
 <213> Glycine max

<400> 54
 gtgtgtttcca agaataactgt gaagccatga gcaaactctc tcttgggata atggagcttc 60
 tggggatgag cctaggagtt ggcaggggaat gtttcagaga tttcttcgaa ggaaatgagt 120
 cggttatgag gttgaattac ta 142

<210> 55
 <211> 235
 <212> DNA
 <213> Glycine max

<400> 55
 cccaaagacc cactaatagt aacaattatg ctccaaagac caattcctct caaattggtc 60
 atcataagaa caataccacc aacagcaaca tcccagtgat tgacatgaag cacatctacg 120
 gtggtgacga gggaaagagg gctgagacgc tccggctcgt gtcggaggcg tgccaagaat 180

gggggtttttt ccaggtggtg aaccatggag tgagccatga gttgatgaag ggggc 235

<210> 56
 <211> 240
 <212> DNA
 <213> Glycine max

<400> 56

aacatgatga tcgagtcaat caatggacta atcaatcacc tcaataccct ccactcttca 60
 ggggttgaac acaagagtat attcaggaga tggaaaagct gtcctttaag ctttggagct 120
 tatagctttg agcttaggcc ttgaagcaaa gaggtttgag gaatttttca tcaaagatca 180
 aactagcttt attogactca accactatcc tccatgccct taccctgacc ttgctcttgg 240

<210> 57
 <211> 403
 <212> DNA
 <213> Glycine max

<400> 57

ctcacttctg atgaacatga tgatagactc actcagttga ctaatcaatc tcctgaatac 60
 cctccaaatt tcagggttat aatacaagag tatattcaag agatggaaaa gctgtgcttt 120
 aagctgttgg agcttatagc tttgagctta ggcattgaag cgaatagggt tgaagaattt 180
 ttcatcaaaa accaaactag ctctattcga ctcaaccact atcctccttg cccttaccct 240
 ggcccttgctc ttggagttgg tcgacacaag gaccctggtg ccttgaccat tcttgcacag 300
 gatgaggttg gaggacttga agtgaaacgt aaagctgatc aagagtggat aggagtgaag 360
 cccaccctag atgcttatat tatcaacggt ggtgatatta ttc 403

<210> 58
 <211> 70
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (8), (18), (27), (36)... (37), (51), (60), (66)
 <223> unsure at all n locations

<400> 58

aaaaaaanaa aaaaaatnaa aaataanaat ataaannata aaaaaaataa naaaaaaaan 60
 aaaaanaaac 70

<210> 59
 <211> 262
 <212> DNA
 <213> Glycine max

<400> 59

ggtgcgaatc acaacactgc acaaggatta gggtttacat ttgggaggta gcacgagagc 60
 agtaggtgaa gcgtgcattc tcaacagttg atctctctcc tttcctgaga gaggatgacg 120
 atggataacc gagagccata gatgcaatca cccaagtctg gtctgcatat ggcagcttcc 180
 atattgtgaa ccatggagta tcccttgatt tgggtaaaga ggccatgcag ctatctaaga 240
 ccttgtttag attactcgga tg 262

<210> 60
 <211> 273
 <212> DNA
 <213> Glycine max

<400> 60

gtgcgaacca caacactgca caaagattag ggtttacatt tgggaggaag caagaaagag 60
 atgggtgagg cgtgcattcc aacagttgat ctctctcctt tcctgagaga ggatgaagat 120
 ggaaaaaaga gagccataga agcaatcacc caagcctgtt ctgaatatgg cttcttccaa 180
 attgtgaacc atggagtttc cctgatttgg ttaaagaggc catgcagcaa tctaagacct 240
 tttttgatta ctctgatgaa gaaaagagca aga 273

<210> 61
 <211> 276
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (2)
 <223> unsure at all n locations

<400> 61

gntcacactg attacggttt attgacatta cttaatcaag atgacgatgt aaacgcactt 60
 caggtgagaa acctgtctgg tgaatggata acagcacctc cagttcctgg gacatttgta 120
 tgcaacattg gtgacatgct aaagatttac tccaatgggt tgtacgagtc cactttgcat 180
 cgggtgataa acaacaactc aaaatataga gtcagtgtag tataactttta tgagacaaac 240

ttcgatactg cagtagagcc attggacaca cataaa

276

<210> 62
<211> 353
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (213), (215), (333), (342), (346), (352)
<223> unsure at all n locations

<400> 62

ccacccttct cacaatcctt taccaaaaca acataagcgg gttgcagggt caccgaaaag 60
gcgtcgggtg ggtgacggtg ccaccactct ccggcggact tgtgatcaat gtaggcgacc 120
tcctccacat attgtcgaac gggttgtacc gagtgtgctc caccgggtct tagtgaaccg 180
gatcagcgaa ggctttcagt tgcgtattta tgnncgcccc tccaaatgtg gagatatgtc 240
cacatgcgaa ttagtggggc caaataagcc tcccctttat aaggcagtga cttggatgag 300
taccttggga caaagcaaag catttaacaa gcntctcact gntcgnnttg tnc 353

<210> 63
<211> 256
<212> DNA
<213> Glycine max

<400> 63

acaagcacc tgacttaaac tccctacaag aactccccga gtcttacact tggacacacc 60
atagccatga tgatcact cctgcagctt ccaacgagag tgtccccgtt attgatctca 120
acgaccctaa tgcttcaaag ttgatacacc atgcatgcat aacttgggga gcgtaccaag 180
tggtgaacca tgccataccc atgagcctcc tccaagacat tcaatgggtt ggggagacat 240
cttctctctc cttga 256

<210> 64
<211> 273
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (4), (7) ... (9), (14) ... (16), (19), (24), (29), (38) ... (39),
(48), (61), (68), (94), (127) ... (128), (131), (133), (250),
(252), (271)

<223> unsure at all n locations

<400> 64

gttnccannnc atgnnnnggnc cgcnaatana acatgcanna gggaaggntc gaagcaattg 60
ngtgaggntg ggtaaataca aacgaaccgc tacncagcta gctaggtgca caaagccgaa 120
cggttggnag ngntgttga aatgcttgct ttagtgccaa ggtactcatt ccaagtcaact 180
gccttacaaa ggggaggctt atttggggccc actagcttcg catgtggaca tatctccaca 240
ttcggagggn cncacataa atacgcactg naa 273

<210> 65

<211> 263

<212> DNA

<213> Glycine max

<400> 65

ctagtgaag ttctctagca aaagtcattg gagaggtaga cccagctttc atccaagacc 60
cacaacacag gccaaagtgc tctaccatac aacctgaagc gttcctgtga tagatctctc 120
tccaataacc aaccacacac ttccagattc atcttccatt gaaaacttag tgcaggagat 180
agggagtgc tgcaaggagt ggggtttctt ccaagtaaca aacctggggg tgcccctcac 240
tctaagacaa aacattgaga tag 263

<210> 66

<211> 248

<212> DNA

<213> Glycine max

<400> 66

cttttcttca gcccatagct tacctgattc tcacgcatgg tctcactctc aacccaacga 60
tgatgattat gtctcattca atgatgatgc atcatcatca tcattcatac ccatcataga 120
cctcatggat ccaaattgcca tggaacaaat aggccatgca tgtgagaaat ggggtgcttt 180
ccaattgaag aacctgggca tacccttttg tgttattgaa gatgtagaag aagaggctaa 240
aaggctct 248

<210> 67

<211> 260

<212> DNA

<213> Glycine max

<220>

<221> unsure
 <222> (58)...(60)
 <223> unsure at all n locations

<400> 67

ttgagcacac cagcacacct taaacgtaag tggatattgt tccacacagg tacactannn 60
 ccttcactct cagaagccta ccgagcccac cccgtgcacg ttcaacacaa gcaccctgac 120
 ttaaaactccc tacaagaact ccccgagtct tacacttgga cacaccatag ccatgatgat 180
 cataactctg cagcttccaa cgagagtgtc cccgttattg atctcaacga cccaaatgct 240
 tcaaagttga tacaccatgc 260

<210> 68
 <211> 274
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (29)
 <223> unsure at all n locations

<400> 68

aacatagagt cctaccctcc ggttctcnc cacctagacc agcagcaacc cccaccaaac 60
 cctgaccgga attataaaga cccgacccaa gaagatccgg atactatacc catcatagat 120
 ctctcatgct tagaccatga cacaacaagt tggaggaagc ttgcaaggat tggggtttgt 180
 ttctgttggg caaccatggg gttccattga cctttttgaa tgagcttcaa gagctggcca 240
 aagaactctt ctctttgtcc ttgaggtga aaga 274

<210> 69
 <211> 262
 <212> DNA
 <213> Glycine max

<400> 69

gaaaaagcta gcagcgaagt taatgtgcct tatgttggt tcccttggt ttcccaagga 60
 agacattcaa atgggagggc cgaaaggaga attcaacggg gcttgtgcgg ctttgcattg 120
 gaattcttac ccgagttgcc cggatccgga tcgggccatg ggtctggccg cgcacacgga 180
 ctccactctc ctcaaatcc tgcacaaaaa caatgtcaat gggcttcagg ttctcaagga 240
 aggggaaggg tgggtggcgg tg 262

<210> 70
 <211> 267
 <212> DNA
 <213> Glycine max

<400> 70

cacgacttca actcacttca agaactccct gactcttacg cttggacaca acctgatgat 60
 gatgatcacc gtctcacaaa ttacccttcc aacaataaga ctaagaccgt tgtcccatc 120
 atcgatttga acgacccaaa tgctccaaac ctcataggcc atgcatgcaa aacatgggg 180
 gtgttccaag tggatgaacca tggcatcccc acgagcctct tcagtgcacat tcagaggggt 240
 agtcttgctc tattctccct tcctctt 267

<210> 71
 <211> 253
 <212> DNA
 <213> Glycine max

<400> 71

ctcgttcccc tgacggtgct gatggctatg gccttgctcg catctcttcc ttcttcccca 60
 aactcatgtg gtctgagggga ttcacaattg ttggatcccc tcttgagcat ttcgtcaac 120
 tctggcccca agattaccac aaatactgtg atcccgtaa gcgctatgat gaagccatga 180
 aaaagctagt gggaaagctg atgtggctga tgttgattc tctgggtatt acaaaggaag 240
 acctgaaatg ggc 253

<210> 72
 <211> 250
 <212> DNA
 <213> Glycine max

<400> 72

aatttccatg cggtagctatg ttttctttgc aagtactagc acaaacagct agctactatt 60
 tttgaacttg tcataattag tctctaattc taattagcca tacattgaac acaccagcac 120
 accttaaagc taagtggatg ttgttcaca caggtacact attccttcac tctcagaagc 180
 ctaccgagcc caccctgtgc acgttcaaca caagcaccct gacttaaact ccctacaaga 240
 actccccgag 250

<210> 73
 <211> 256

<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (152)
<223> unsure at all n locations

<400> 73

aagccatgaa aaagctagtg ggaaagctga tgtggctgat gttggattct ctgggtatta 60
caaaggaaga cctgaaatgg gccgggtcca aaggccaatt caaaaagaca tgcgcagcct 120
tgcaattgaa ctcttaccgc acttgtccgg anccggatcg ggccatgggt ctggccgccc 180
acaccgactc cacccttctc acaatccttt accaaaacaa cataagcggg ttgcagggtc 240
accgaaaagg cggcgg 256

<210> 74
<211> 253
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (128), (130), (212), (216), (238), (240), (244)... (245),
(248)... (249)
<223> unsure at all n locations

<400> 74

gcgatatgat gaagccatga aaaagctagt gggaaagctg atgtggctga tgttggattc 60
tctgggtatt acaaaggaag acctgaaatg ggccgggtcc aaaggccaat tcaaaaagac 120
atgcgcancn tgcaattgaa ctcttaccgc acttgtccgg atccggatcg ggccatgggt 180
ctggccgccc acaccgaact ccaccctctc anaatnttta ccaaaaacaaa atgggggngn 240
tgcnngttna cgg 253

<210> 75
<211> 245
<212> DNA
<213> Zea mays

<400> 75

aagaccatgg cattccgcgg aggaaggagg gcctgtgcgg gaagcatcca ggcagtgaac 60
atcgcgtgca cagccatcgc gaggtccgtg caagagtttg cgtggacgct caaggaaggc 120
gacgaggaca aggacgacac catccagctt acaaccaaca ggctttaccc gttgcatgtg 180

tacctcacac ctagaggaag gaaatgagca tcacatttat ttggtctctg gtctgtgagc 240
 atatg 245

<210> 76
 <211> 149
 <212> DNA
 <213> Zea mays

<400> 76

cggtctgagc aggaatacct ttatcaagaa atccaaaaag tctgcggcaa taagacagtt 60
 accgaggatc acctgccaga gttaccgtac ttgaacgcgg tgttccatga gaccatgagg 120
 cggcattctc cagttccatt agtgcctcc 149

<210> 77
 <211> 263
 <212> DNA
 <213> Zea mays

<400> 77

aaaggttata tcaaaggagg aaatctacaa ggccactgtg gttgacatga tgatgtgtgc 60
 aattgaggtc gactggaggg atttcttccc gtacctcagc tggattccaa ataggacctt 120
 cgaaacaaga gtactgacta ccgaagcgag gagaactacc gtgatgcaag ccttgatcaa 180
 gcagcaaaag gaaagaattg cacgtgggga gactaggata tcctacctgg acttcctgct 240
 ggcagagaat aactgactg atg 263

<210> 78
 <211> 288
 <212> DNA
 <213> Zea mays

<400> 78

aggcattgtc agcgctcacc cgtgacaaaa ctatggttgc tacaagtgc tatggtgact 60
 tccacaaaat gattaagcgt tatatcatga cattcatgtt gggtaacttct ggccagaaac 120
 aatttaggga cacaagaaac atgatgggtg acaacatgtt gaacactttc catacattgt 180
 tgatggatga tccaaattct cctotgaact tccgggaagt tttcaagaat gaattatttc 240
 gcttatccct gggtcaggct ttaggcgagg atgtgagttc aatctatg 288

<210> 79

<400> 82
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 ggctggatga atgagcagaa gacagaatg gcttcaggaa aggaagtaaa ttgttatttt 120
 gactacctgg tatcggaagc taaagaactg actgaagatc aaatttccat gctaactctgg 180
 gagaccatta ttgagacatc tgataactaca ttagttacaa ctgaatgggc tatgtatgaa 240
 cttgc 245

<210> 83
 <211> 230
 <212> DNA
 <213> Glycine max

<400> 83
 cacagattcg agatgcatgc tatggagtgc ctcacccttt cagttactgt ggccgcagct 60
 gctttttcta tcctcttctt cttcctgcga catgcgggag ccggagcagg atcactcccc 120
 ccagtaccag ctgttccagg attaccagtg attgggaatc tgctccaatt gaaggagaag 180
 aaaccttaca agaccttcac ccagatgggt cacaacatg ggcccatcta 230

<210> 84
 <211> 245
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (236)
 <223> unsure at all n locations

<400> 84
 acagattcga gatgcatgct atggagtcc tcaccctttc agttactgtg gccgcagctg 60
 ctttttctat cctcttcttc ttcttgcgac atgcgggagc ccggagcagga tcaactcccc 120
 cagtaccagc tgttccagga ttaccagtga ttgggaatct gctccaattg aaggagaaga 180
 aaccttaca gacttcaccc agatgggtca caaacatggg cccatctatt ccatcngaac 240
 cgggtg 245